

CLAIMS

Sub 1
1. A photosensitive resin printing plate material comprising a support provided thereon at least a photosensitive resin layer and an optical density changing layer, further having a film layer interposed between the photosensitive resin layer and the optical density changing layer.

2. A photosensitive resin printing plate material as claimed in Claim 1, wherein the film layer has a thickness in a range of 1 to 30 μm .

3. A photosensitive resin printing plate material as claimed in Claim 1 or 2, wherein the optical density changing layer yields an optical density of 2.0 or higher or 0.5 or lower before irradiating a laser radiation thereto, said optical density respectively changing to 0.5 or lower or 2.0 or higher after laser is irradiated thereto.

Sub 2
4. A photosensitive resin printing plate material as claimed in one of Claims 1 to 3, wherein the photosensitive resin layer is provided at a thickness in a range of from 0.1 to 10 mm, and is a layer photocurable by a light having a wavelength in a range of from 300 to 400 nm.

5. A photosensitive resin printing plate material as claimed in one of Claims 1 to 4, wherein a film stripping layer is incorporated between the photosensitive resin layer and the film layer.

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6. A method for producing a photosensitive resin printing plate of relief type, comprising at least the following steps in this order,

a step of forming an image on an optical density changing layer,

a step of forming a latent image by exposure of the photosensitive resin layer through the image,

a step of peeling off the film layer and the optical density changing layer from the photosensitive resin layer, and

a step of developing the photosensitive resin layer.

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